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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

To,

Date: 21-09-2019

ASSISTANT EXECUTIVE ENGINEER

BYATARAYANAPURA SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Civil Pro Services for the work of CLEANING OF BURRIAL GROUND AND PROVIDING WATER TANK AT KATTIGENAHALLI BURRIAL GROUND IN WARD NO 05.

Ref: 1. Work Order No: BBMP/EE/BTP/WO/14/2019-20

2. Job code: 005-19-000015

We are herewith forwarding to Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077. First and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.2,04,339.00/- (Rs. Two Lakhs Four Thousand Three Hundred and Thirty Nine Only).

Thanking you,

Yours faithfully,

For CIVIL PRO

R.KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO

CIVIL Pro Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-09-24-64** **Date: 13-05-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Cleaning of Burrial Ground and Providing Water Tank at Kattigenahalli Burrial Ground in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/14/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-05-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11).1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-05-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-09-24-64** **Date: 08-06-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Cleaning of Burrial Ground and Providing Water Tank at Kattigenahalli Burrial Ground in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/14/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-05-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	11-05-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-24-64**	**Date: 13-05-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Cleaning of Burrial Ground and Providing Water Tank at Kattigenahalli Burrial Ground in Ward No 5.	
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.	
Customer's Reference	:	BBMP/EE/BTP/WO/14/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample condition	:	Satisfactory	
Date of Receipt	:	10-05-2019	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	10-05-2019	

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-24-64** **Date: 13-05-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.45	–
6	Water Absorption(%)	0.22	–

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-24-64** **Date: 13-05-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Cleaning of Burrial Ground and Providing Water Tank at Kattigenahalli Burrial Ground in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer Reference	:	BBMP/EE/BTP/WO/14/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-05-2019
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-05-2019

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-24-64** **Date: 13-05-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.42	_
5	Bulk Density(Compacted) (Kg/l)	1.48	_
6	Water Absorption(%)	0.35	_
7	Aggregate crushing Value(%)	24.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	25.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-09-24-64 **Date: 13-05-2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Cleaning of Burrial Ground and Providing Water Tank at Kattigenahalli Burrial Ground in Ward No 5.

Agency : Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.

Customer's Reference : BBMP/EE/BTP/WO/14/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-05-2019

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-05-2019

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	56	85	8.5	91.5	60-95	75-100	85-100	95-100
4	1.18 mm	238	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	200	523	52.3	47.7	15-34	35-59	60-79	80-100
6	300 micron	202	725	72.5	27.5	5-20	8-30	12-40	15-50
7	150 micron	193	918	91.8	8.2	0-10	0-10	0-10	0-15
8	Pan	82	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-09-24-64** **Date: 13-05-2019**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.52	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	6.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/05/2019

Lab ID	:	CP-2019-09-24-64
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Cleaning of Burrial Ground and Providing Water Tank at Kattigenahalli Burrial Ground in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Reference	:	BBMP/EE/BTP/WO/14/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-2019
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	14/05/2019	21/05/2019	151.35 X 150.44 X 151.25	22769	8.987	427.6	18.8	18.8
2	PCC	M20	14/05/2019	21/05/2019	151.27 X 151.54 X 149.77	22924	8.663	435.4	19.0	
3	PCC	M20	14/05/2019	21/05/2019	151.81 X 150.83 X 149.06	22898	8.939	427.5	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-24-64 **Date: 11/06/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Cleaning of Burrial Ground and Providing Water Tank at Kattigenahalli Burrial Ground in Ward No 5.

Agency : Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.

Customer's Reference : BBMP/EE/BTP/WO/14/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-2019

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	14/05/2019	11/06/2019	149.14 X 149.94 X 151.25	22363	8.506	527.4	23.6	23.1
2	PCC	M20	14/05/2019	11/06/2019	149.95 X 151.83 X 150.62	22766	8.836	508.3	22.3	
3	PCC	M20	14/05/2019	11/06/2019	150.25 X 150.41 X 150.40	22599	8.838	531.5	23.5	

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TEST REPORT ON NP4 RCC PIPES

Lab ID	:	**CP-2019-09-24-64** **Date: 10-06-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Cleaning of Burrial Ground and Providing Water Tank at Kattigenahalli Burrial Ground in Ward No 5.
Agency	:	Sri.Narayana Rao S , No 597/60, B. Narayana Compound, N.Nagenahalli, Dr. Shivaramakaranthanagara Bangalore-560077.
Customer's Referenc	:	BBMP/EE/BTP/WO/14/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-2019
Sample Type/Size	:	NP4 RCC Pipe
Reference to BIS codes	:	IS 458:2003
Date of test	:	10-06-2019

DIMENSION ANALYSIS

SLno	Length mm	Diameter mm	Thickness mm	Requirement as per IS 458:2003
1	2498	1201	118	Length : ± 25mm Diameter : ± 10mm Height : +6mm/-3mm
2	2510	1200	120	
3	2498	1201	122	
4	2500	1202	120	
5	2500	1210	118	
6	2498	1200	120	
7	2497	1201	121	
8	2500	1200	120	
9	2500	1204	118	
10	2500	1200	120	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Lab ID : **CP-2019-09-24-64** **Date: 10-06-2019**

COMPRESSIVE STRENGTH:

Sl. No.	cube		Area (mm^2)	Failure Load (KN)	Compressive strength N/mm^2	Remark
	D.O.C	D.O.T				
1	13-05-2019	10-06-2019	22150	789	35.6	Mix (M35) 28 Days
2	13-05-2019	10-06-2019	22350	791	35.4	
3	13-05-2019	10-06-2019	22400	786	35.1	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig. Date BANGALORE

R RUDRAPRASAD
Authorized Signatory
Quality Manager

****End of Report****

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